

**ZULF'S FEBRUARY 18 2022 1:46 AM FALL 2019 STANFORD  
PH.D. ANALYSIS QUAL**

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**1. SEEKING IMMEDIATE TENURED FULL PROFESSORSHIP AT STANFORD**

My work on successful Final Theory of Physics, four-sphere theory, as well as my work establishing Universal Human Moral Nature, and establishing empirical Virtue-Life Satisfaction and completion of Virtues, these are worthy of Stanford Tenure.

I would like \$100 million immediately for funds and Stanford University Tenure as soon as possible.

I have done a number of Ph.D. Qual exams already.

**2. PROBLEM I.1**

We have to prove  $T \in L(H)$  is invertible if and only if both  $T$  and  $T^*$  are bounded below. Here  $H$  is a Hilbert space, and  $T^*$  is the Hilbert space adjoint.

I will do the easier direction first, and show that if  $T \in L(H)$  then both  $T$  and  $T^*$  are bounded below.

Suppose  $S \in L(H)$  is the bounded inverse of  $T$ , so  $STx = x$  for all  $x \in H$ . Then, since  $S$  is bounded we have

$$\|Sx\| \leq C_1 \|x\|$$

Then just set  $x = Ty$  and get

$$\|STy\| \leq C_1 \|Ty\|$$

for all  $y \in H$ . So

$$C_1^{-1} \|y\| \leq \|Ty\|$$

for all  $y \in H$  and  $T$  is bounded below. Now use

$$(ST)^* = T^* S^*$$

and we will have  $T^*$  bounded below.

Now suppose that  $T$  and  $T^*$  are bounded below. We would like to prove that it is invertible. I am not certain how to do this, so I will outline a sketch. We will translate 'bounded below' to injectivity for both  $T$  and  $T^*$  as neither can have nontrivial kernel by the lower bound. Then we will need closure of  $\text{Ran}(T^*)$  is  $\text{Ker}(T)^\perp$ . This will give us  $T^*$  is both injective and surjective and therefore invertible by Open Mapping Theorem. Then we transfer invertibility over to  $T$ .

### 3. NOTES ON FOLLOWING SECTIONS

I was examining yesterday, in between horrible meta experiences where Bill Gates had been exercising his power in vile, disgusting, barbaric, savage, disgusting ways against me while United States Government had been complicit and morally deficient *as they had been in the aftermath of the Mai Lai Massacre in 1968*. White People in United States Government had been known to be extraordinarily morally decrepit whenever horrible, evil, barbaric, savage, disgusting, unconscionable, abominable, heinous crimes come to light where the criminal is also white. They are filled with great sympathy and reverence in these cases for the criminal, and feel extreme need for mercy and kindness and lenience to them. They are quite more morally outraged when minor harm is done by non-whites against whites. But whenever the criminal is white they feel their great mercy and kindness ought to be exercised *on behalf of the criminal*. American White People are by far the most decrepit as a group especially against deeply disgusting, barbaric, horrific, evil war criminals come to light. They suddenly are filled with kindness for the criminal. The mild treatment of the war criminals of Mai Lai massacre make this extremely clear. Why this is so is beyond my understanding. We will be able to examine Washington's process of deliberations regarding Bill Gates and could have some theories of this curious phenomena.

Anyway, the sections below I wrote yesterday, February 18 2022 and what I had discovered is that we have an opportunity to produce the canonical and correct Evolutionary Theory Of Emotions. It is fairly clear to me that emotions arose first 251-201 million years and was subject to evolutionary adaptations and precede the development of the neocortex and thought and such in mammals.

Here we need to understand that mammals have both thought and emotions. There are various ways that both thought and emotions will be eventually measured in all mammals. This is not particularly radical at all. We simply do not have sufficiently sophisticated real-time measurements for brain activities to understand how to decode thought in mammals yet. The idea that any mammals are without both thought and emotions is wrong. Now their interpretation is another matter. Maybe it is too difficult for people to accept, but it's obviously true because emotions are states affected by some subcortical regions and thought is *whatever activity occurs in the neocortex*. Mammals have neocortex ergo they have thought. Now you might object and say, "Zulf that is stretching thought too much because I am much comfortable with thought being what I do, what people do in great universities." Well that is a limited view. Some of those ideas of thought are comforting to us, and that's fine, but this is a semantic issue.

Well, if you want to keep 'thought' to just the sort of things Harvard Professors engage in, that will be too narrow too. I think it best in these situations to just make the concept broader.

What is clear is that human beings do have sophisticated thought, and for comfort and convenience we do like to make a phase transition and consider thought to be our monopoly, and that's not actually bad. But thought is in a continuum in mammalian evolution that simply has a specialisation for human beings.

#### 4. WITHOUT QUESTION MY VALUE TO UNITED STATES OF AMERICA FAR EXCEEDS THAT OF BILL GATES

Bill Gates' achievements are paltry compared to mine. He was a college dropout charlatan who made some money selling third rate software, and he had revealed genocide plans for non-whites in America yesterday. I have spent years of my life, instead, working on serious questions of Final Theory of Physics without supervision or funding in Allen Texas and I have succeeded. But for whatever reason white people in Washington seem to think that Bill Gates has higher value than myself to the nation, which is preposterous. I can make a great deal more money than him as my understanding of *Finance* is superior to his and I am a serious man of superior Virtue and Character and do not have any impulse to use War Power against anyone and put my sexual organ in their Deep Interior. These are savage, barbaric, heinous, disgusting, vile, inferior, wretched ideas of ambitions. I am, instead, of a lineage of three thousand years of Vedic aristocratic line, and have refined sensibility and have sought a Natural Rights World Order. I am far more American than Bill Gates since I believe in the United States Declaration Of Independence. Bill Gates' money was not made legitimately. He made the money by his totally disgusting and evil methods of destroying interiors of his rivals and killing them. That was the method of his success. His success is not an indication of *health* of the nation but its fundamental degeneration. Those who admire him, his cronies, are not good people at all. They are either simply deluded, or are harmful criminals who are harbingers of dystopia on Earth.

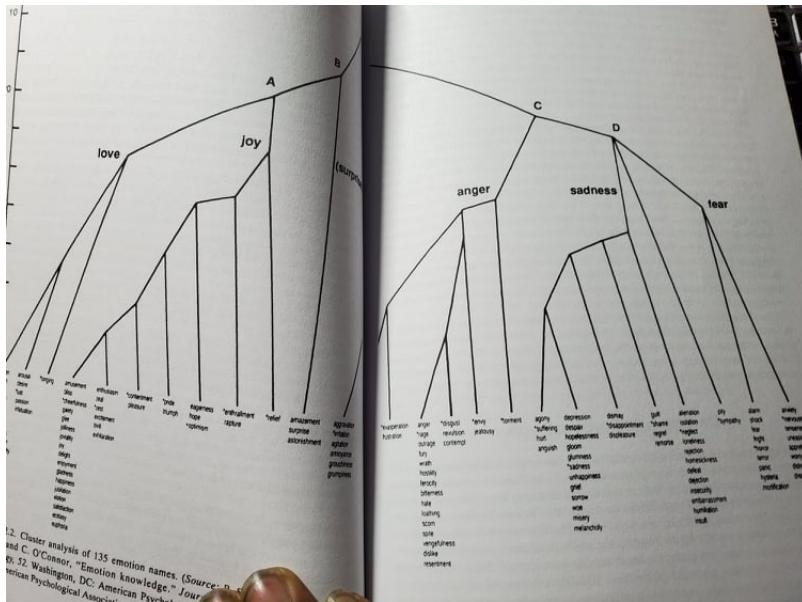
I have important things to do. I have to work out Quant Positive Psychology and Global Individual Debt, but because of the complicity of United States Government, who have allowed Bill Gates to sabotage my legitimate income of \$620 million, I am stranded living with my aunt instead of getting my own pad in San Francisco and proceeding with a more comfortable life, get married and have a family and take care of my ailing mother who needs money. Why should United States even exist if it is not able to secure my natural rights? This is basic to United Nations Charter and Universal Declaration of Human Rights of 1948. But for some reason totally mysterious to me, the United States Governement is supporting Bill Gates instead of doing its duty and securing American Natural Rights.

This will not end well for the United States of America at all. Neither Europe nor Asia will respect the nation at all after this sordid affair ends, whether I live or die. Bill Gates *does not belong in Civilisation at all* and he is given great power and is revered by many in Washington. That's not good.

#### 5. MATHEMATICALLY PRECISE DEFINITION OF EMOTIONS

I was reading Richard S. Lazarus *Emotion & Adaptation*, mostly to gain familiarity with the territory. In the end I will tend to side with Jaak Panksepp's *Affective Neuroscience* for a firm theory of emotions. It is most important to understand that this is an area that is nowhere near any fine state of science at all. I believe that Mathematical effort will produce progress in this area, because Mathematics allows us to pay attention to logical coherence and precision in definition. The Psychology of Emotions does not possess logical coherence comparable to theoretical physics.

Let me show you a tree that Richard S. Lazarus displays pp.66–67.



I think the first problem I have with the psychology of emotions is that the overall development of this area has not produced any canonical set of well-defined concepts yet comparable to theoretical physics.

For mathematically minded people, probably the most valuable basic model is the seven emotional systems elucidated by Jaak Panksepp.

#### SEEKING, RAGE, FEAR, LUST, CARE, PANIC, PLAY

Let me assure you that in the field of emotion psychology, this clarity of emotions tied to primal neurobiological systems in the subcortical regions of the brain is an enormous advance for scientific theories. At least then you know you are dealing with some phenomena that has possibility for precise quantitative theories. Otherwise, what you will find is a lot of people coming to the area, finding anarchy and chaos, and attempting to provide their own order.

I advocate just starting from Jaak Panksepp's foundations and accepting those as canonical for the purpose of strong and serious scientific theories. If you take other approaches you will be quite lost. No one agrees with anyone else in the field frankly except out of politeness. Just stick with Jaak Panksepp here till their David Hilbert or Tiresias or whoever shows up and laws down the law. There are worse things you could do here like go to Burning Man, take large quantities of psychedelic drugs, see all sorts of genius illuminations while having an orgy with a lot of people who are apparently 'liberated' from bourgeois constraints, but have parents who can afford their whims, and then scribble down some schema feeling like a Divine Messenger of God, and then using that scheme.

I think you will generally find that sticking with subcortical emotion systems to organise emotions is more stable for canonical scientific theories.

I don't want to constrain you, however. If you do have parents with large capital to squander for your liberation from bourgeois sexuality and are truly attracted to psychedelics, who am I to tell you how to live your life? Do what pleases your heart.

## 6. WHAT THIS EMOTION FIELD DESPERATELY NEEDS

I don't think psychology of emotions needs more and more ad hoc schemes for organising emotions. That's not substantial scientific work, frankly. Instead Stanford University or a Consortium should do the following.

- Do a review of all previous efforts at schemes once
- Produce a sophomore undergraduate level book that is easy to read, simple, with the canonical scheme
- Highly publicize with inexpensive dissemination of the standard canonical emotion scheme
- Be extremely skeptical of any alternative schemes for research publications and tell all psychologists use the canonical scheme for emotions and freeze it

It is the lack of a single widely available well-known canonical scheme that produces voluminous amount of writings. This is not ultimately valuable for the field as talented people should not be wasting their time. There should be a solid canonical scheme and it ought to be based on subcortical systems of emotions rather than based on linguistic or historical schemes like Descartes *Passions of The Soul*. Now this is a beautiful work, by the way. I read it. But it's best to produce a canonical scheme that will withstand scientific theories and biological basis is most likely to do that.

## 7. A CANONICAL CLASSIFICATION OF EMOTIONS SHOULD BE GLOBAL

Whether you are in Madras or Berlin, Dublin, Tokyo, San Francisco, London, Minnesota, wherever, everyone ought to have a clear solid understanding of the basic emotions and their meaning and their organisation at the high school level. This is not very difficult to produce with scientific rigour thanks to Jaak Panksepp's work in *Affective Neuroscience*. This will totally eliminate a lot of confusions from religious definitions and a lot of confusions from television documentaries and other problems. We do not want our children or anyone learning that Aliens introduced Emotions and granted them to the slaves of Apophis when the Pyramid landed from the Time-Travelling spaceship and then Falcon-headed Alien Conqueror granted the emotions in three colours and gave the symbol of the Sun-God and anger and rage and love and fear was introduced to swamp a solid scientific classifications. I know a lot of people in America think that Muslims are too religious, but Islam is a religion that produced a livable society. If people got into Aliens landing with Pyramids it's all over for humanity.

## 8. THAT'S EXACTLY RIGHT STANFORD PSYCHOLOGY

Bill Gates is a high school educated man who made some money and it is precisely his lack of a college education that leads to his delusion that now he can rule the world. These are things that only a hick illiterate tacky tasteless little fuck does. People who are cultivated don't make a bit of money and suddenly get the idea that they rule the world.

## 9. MORE SERIOUS ISSUES

You see, Psychologists, we get educated in middle school and we learn the periodic table. There needs to be something like that for ordinary education on

emotions, so people have a standard for discussing emotions without being thrown to the woods and crawl through deserts and pick up totally random ideas from teen romances or Hollywood thrillers and so on. This is a huge gap in the world that young children do not have any proper organised education in what emotions there are, how they are organised, and very basic elementary things. So the whole world becomes a Tower of Babel regarding precise language about emotions and that holds the human race back from further advances in communication, in conflict management, in serious conversations that might prevent teenagers going off the rails into a life of crime. Standardisation of emotions is not a convenience but a necessary precondition for Civilisation to prevail over barbarism. This Primitive Age of barbaric Commerce will not solve this problem without effort of Psychologists to go far beyond their narrow problems that will not have the sort of impact if everyone does not already know the canonical basics as part of their ordinary education and ordinary language universally.

#### 10. BILL GATES IS INTENT ON SQUEEZING THE LIFE FROM ME LIKE A PYTHON

Bill Gates' mindset is slowly becoming clear to me. He literally said, "Whites are superior. I will squeeze the life out of him." He said this to Stanford Psychology saying that he will blockade their tenure offer to me.

That's most interesting. United States Government ought to take extreme note of this. This is his actual meta statement. So this cunt actually used all sorts of powers when I gave him something that makes him money, to literally squeeze the life out of me relentlessly, *like a Python* because this will prove that whites are superior to himself.

I was not aware of this particular twist of understanding at all. You see, I am a Virtue oriented man and when I hear 'superior' I think arete, higher Virtue, or higher intellectual genius, or greater benevolence.

Now I get this man a bit better. He has *jungle monster morals*. He kills people and thinks he's superior to them because he lived and they died.

I will have to admit that as a Python or some other predatory killer he is superior to me. But that's not exactly white superiority. That's Python or Vampyre or Monster Superiority. I am not the Godzilla type so I don't usually enter that arena.

Pretty interesting. So why is United States Government interested in someone *squeezing the Life out of an American Man* with USCIS# 046-077-179. Don't you think US Declaration Preamble implies that if someone is obsessed with showing superiority in *squeezing the Life out* of an American United States Government is obligated to totally destroy them?

What am I missing here, United States Government?

#### 11. ZULF CHALLENGES RICHARD S. LAZARUS EXPLANATION OF EMOTIONAL PROCESS

On p. 51 of Richard S. Lazarus *Emotion & Adaptation* there is an explanation of emotion that is wrong.

Roughly he says emotions are not reflexes or physiological drives but further evolutionary adaptation that exist in great apes and humans. He says emotions depend on intelligence, learning and thought.

This is totally wrong. Emotions do not depend on intelligence, learning and thought. They exist in all mammals such as fear and anger etc. So they do not appear in great apes and humans.

He is right that emotions are evolutionary adaptations, but they are evolutionary adaptations in mammals for all 251–201 million years and they do not depend on any intelligence, learning and thought and precede the neocortex.

The book is good in various ways but this is strongly wrong his theory presented in p. 51.

**11.1. What Is The Right Theory Here?** The right story is that Panksepp systems SEEKING, RAGE, FEAR, LUST, CARE, PANIC, PLAY and their associated subcortical equipment *evolved 251-201 million years ago with mammals* and then were modified minutely over time from generation to generation so that emotions that already existed in primal form evolved over time.

The right story is also that emotions are stimulus responses both of sensory organs such as the five senses as well as thoughts not just in humans but all mammals with neocortex.

This is fairly obvious to me because it's parsimonious and it's true as well. Richard S. Lazarus book was published in 1991 so it's not exactly new but the entire field of evolutionary psychology does need to stand on a this story. I can work it out. It's obviously right so I am not worried that there will be difficulties getting sufficient evidence.

I am surprised no one seems to have strongly defended the right story. We'll call this therefore Zulfikar Moinuddin Ahmed's Emotion Evolution Theory. Hey, if it isn't taken, it's mine.

## 12. FEB 18 2022 STANFORD CONFERS TENURE AGAINST BILL GATES EFFORTS

Good work Stanford for conferring me tenure against Bill Gates blockade. Keep it safe. This will be difficult because Bill Gates' major life talent has been to destroy people's lives and careers as the hick illiterate podunk tasteless disgusting charlatan has no other talent at all or any intellectual genius at all. He will be quite obsessed with trying to sabotage you.

In any case, I want \$100 million in my bank and then I will relocate to Mission District San Francisco. I will work out an Evolutionary Theory of Emotions in mammals and get some basic theory that is correct. So I had pushed back Romantic Love to H. Australopithecus in a paper I wrote some years ago so this theory of mine is just a broadening of the same idea so it is not ad hoc. I am interested in more refined robust scientific theories of emotions as well, as I believe that they will have immediate applications in *Quantitative Positive Psychology* that I wish to establish in San Francisco. My four-sphere theory is solid in evidence as well. I believe you and I will have a mutual opportunity.

## 13. PANKSEPP'S MAMMALIAN EMOTION THEORY IS RIGHT

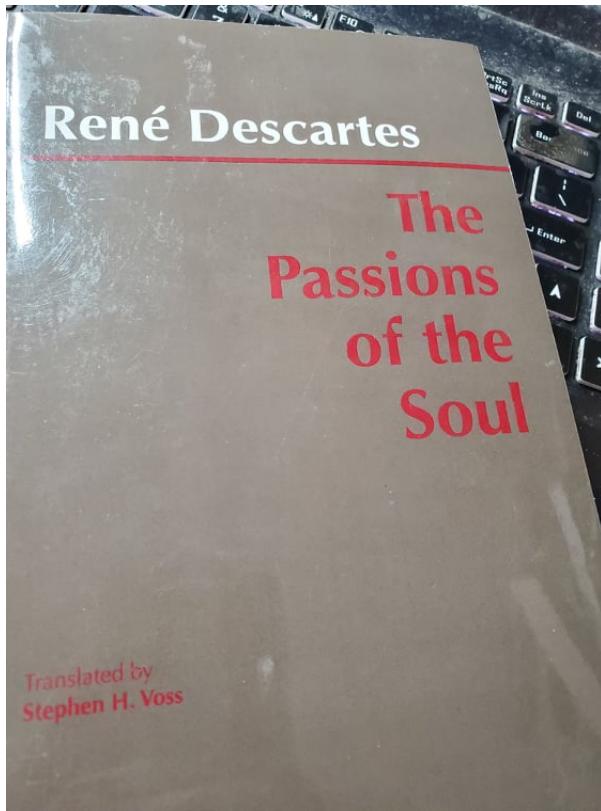
I read some criticism of Panksepp's and Izard's theory from Professor Lisa Feldman Barrett. She's wrong. You see, the genetic code in common  $G_c$  is 99.9% of all human beings and so for basic emotions, fear and panic and joy and these sorts of things, parsimony is the best bet. Here Panksepp's neurosystem approach is very strong and it will be robust and basic emotions are a good theory. It's an

interesting idea to reconsider whether Descartes' original six emotions in *Passions Of the Sex* might be wrong but I don't think that there is any substantial scientific theory that will be able to produce superior science to Panksepp's seven systems. It's right because these are very old 251-201 million years old, and once you have something that old, you want very simple theories in the foundations and they will be right. Obviously there are various second order effects and third order effects and all manner of complications but Panksepp's theory is good because it's basic and clear and gives path to quantitative basis for finer theories. Even if Professor Barrett is right, it's a minor correction to a basic theory. The main point is that it's part of evolutionary adaptation from evolution of mammals that encode emotions and impossible for human beings to tamper with.

Let me share the Panksepp article from 2005. His theory is right overall. He is a little verbose, so there might be some adjustment making the core theory simpler and clearer [1].

For me the main issue is to ensure that it makes strong sense that seven systems are able to provide elementary parsimonious explanation of all the mammalian emotions too. I don't think there is any substance to challenging that these basic emotions have been badly extracted. You see, Rene Descartes was a pretty bright man, and he would not have gravitated towards a basic emotion theory at all if they were not glaring enough. I'll show you. Fine, fine, he thought light speed was infinite, but this is actually easier, because he had observations of French people. Except for some Italians, French are the most outrageously melodramatic with emotions. If you're French in 1649 and you cannot get these things right, generally you don't survive to be read by Americans in 2022. Descartes is so immortal that even rustic hicks from boondocks in Seattle, the provincial nowheresland of northwest frontier probably read him.

Here is my copy. Yes, I read it. He's a bright boy. I am impressed by him.



Let me a step deeper. So you look at Book II of Descartes' *The Passions of the Soul*. What do you see?

the sensitive part of the soul, or *where* and the other the *Irascible*. And because I discern no distinction of parts in the soul, as I have said above,<sup>11</sup> this seems to me to mean nothing except that it has two faculties, one of desiring and the other of being vexed. And because has in the same way the faculties of wondering, loving, hoping, fearing, and thus of receiving each of the other passions into itself, or of doing the tions these passions impel it to, I fail to see why they wanted to refer all of them to concupiscence or anger. Moreover, their enumeration does not elude all the principal passions, as I believe this one does. I speak only of the principal ones, because many other more particular ones could be distinguished besides, and their number is indefinite.

#### Article 69. That there are only six primitive Passions.

at the number of those which are simple and primitive is not very large by carrying out a review<sup>12</sup> of all those I have enumerated, one can cover with ease that only six of them are of this kind—namely Wonder, Hatred, Desire, Joy, and Sadness—and that all the others are composed some of these six or are species of them. This is why, so that their simplicity may not perplex readers, I shall treat the six primitives separately here, and show later in what way all the others originate from them

#### Article 70. About Wonder. Its definition and its cause.<sup>13</sup>

onder is a sudden surprise of the soul which makes it tend to consideratively those objects which seem to it rare and extraordinary. So it articles 30 and 47. The adversaries here are the same as those in a. 47; see note 4  
a review as part of the Cartesian method, see the *Principia Philosophiae* and the *Discourse cited in note 1. The status of the *Principia* and the *Discourse*.*

That's right. He had decided that there is a six factor model of all passions and that was in 1649. That's a very early decision in history of Science that there are six emotions of the 'natural-kind'. What did Panksepp do exactly? He obviously knew about this classification and he sought neurobiological mechanisms to update Descartes' Theory of the Soul. Now why would Descartes in 1649 produce a theory that was ad hoc knowing how catty the intellectual elite were in 1649? He would not have written it at all if he were not quite confident that it would be established because he obviously had a lifetime of observations and did a little bit of thinking to organise them. Panksepp stood on firm tradition from the very beginning in his Affective Neuroscience and sought neurobiological basis and he *found them*. Here others like Professor Lisa Feldman Barrett will lose to him because they are too far from the noisy emotional streets of 1649 Paris so they are more abstract. They could find refinements but they will be dead in the water if they challenge a lifetime of observation of Rene Descartes. You see, I was looking at some of the schemes of emotions myself, and only after reading Panksepp did I say, "Dammit this Panksepp has the right answer already". And being wise I scratched off *Zulfikar Moinuddin Ahmed's Eternal Final Theory of Emotions* from my list of immortal genius achievement topics. I am fast when I see someone else has the right answer already. I am taking Evolution Theory of All Emotions in Mammals rather than challenge seven subcortical systems of Panksepp. His theory is right for more or less thousands of years to come.

#### 14. JAAK PANKSEPP'S SEVEN EMOTIONAL SYSTEMS IN MAMMALIAN BRAINS IS TRUE

Jaak Panksepp is a ponderous medieval scholarly type so he writes voluminously. I don't worry too much about all sorts of fine-tuned points because many basic issues are still not solid. Rene Descartes had already given *six* primitive emotions. Panksepp pushed into neuroscience and *found the source* of the six primitive emotions (LUST+ six others). In other words he established Descartes was *right* about six primitive emotions. This is where Panksepp had immortal genius. He established Descartes' theory with concrete neurobiological systems.

So you need to consider models of emotions like this. Let  $E = \mathbf{R}^7$  Then the emotions of any person over time will be

$$e : \mathbf{R} \rightarrow E$$

where

$$e(t) = (e_1(t), \dots, e_7(t))$$

is the emotion from seven sources. You're not going to get 20 different sources because you see, Descartes would have been able to intuitively determine the dimension of freedom from his life experiences in Paris. He did not really fabricate the Six Primitives. He was a genius. Why would he go out of his way to frivolously write six if he thought it would be 20? I doubt that even one additional dimensional will ever be discovered. It's not as though human beings are trying to hide any emotional capability. We are extremely willing to dish out all seven systems on anyone we can find.

Anyway, Professor Barrett's ideas will be good for fine tuning with seven dimensions for emotions. Her ideas are good for various sorts of finer shades of seven and their mixtures. She won't be able to budge the dimension of sources because Panksepp is right. He's not guessing.

I mean it's *true* that such and such is merely a hypothesis and we would like all sorts of meticulous methodological experiments etc. But that's really not important. You need to be *right*. It's obvious Panksepp is *right* and so it's not a big deal if meticulous experiments are all completed. There is nothing to vast orders of magnitude more dimensions. They will remain seven for eternity. I would be skeptical of even two more dimensions.

#### 15. MY SUGGESTIONS TO PROFESSOR LISA FELDMAN BARRETT ON LONGEVITY OF YOUR WORK

Jaak Panksepp's seven subcortical sources of mammalian emotions is right. So if you challenge this you will lose longevity for your work because Kenneth L. Davis and Jaak Panksepp's Emotional Foundations of Personality produced a personality theory where they show strong correlations with Neuroticism corresponding to FEAR and RAGE and the rest of OCEAN mapping one-to-one with their personality model based on the seven systems. That's too strong scientific rightness for seven factor model of Panksepp.

My suggestion is to slice up your theory and accept the seven system model of emotions and rework your work and map it to  $E = \mathbf{R}^7$  and then you can challenge issues where your insights are better than Panksepp's on expression and interpretation of emotions.

I have been studying history of Science for years. You can't go against a theory that has substantial truth without becoming obsolete. You have to accept the clearly true part and then engage in details to keep your ideas and work alive.

#### 16. THIS BILL GATES NEEDS FIFTY LASHES AND SOME TIME IN THE DUNGEON

This miserable wretched insolent little cunt *Bill Gates* needs fifty lashes and some time in the Dungeon for invading my Deep Interior at all. Pathetic worthless little shit.

#### 17. WONDERFUL ARTICLE OF ANDREA SCARANTINO

"The Philosophy Of Emotions and Its Impact On Affective Science" pp. 3–48.

"The feeling tradition holds that emotions are feelings of a distinctive type, where a feeling is a conscious experience or a sensation or a subjective quality or a quale or a what-is-it-likeness. This view dominated the study of emotions from Ancient Greece to the 20th century."

The broad overview of Andrea Scarantino is quite valuable for me because I am 50 now and I have not made the study of emotions my major effort in life. I like to think about things simply. For example, you see the last paragraph about Bill Gates? It gives me a good feeling. I don't give a damn if anyone approves of it or disapproves of it. Yes, the real Bill Gates is addressed, the Microsoft Founder. And yes, my actual feelings about the little cunt is what I just wrote down. And no, I will never ever apologise for it. C'est la vie. And I am a perfect gentleman and would not have said the things I said about him with perfect lack of qualms unless the little cunt didn't deserve it. See that's what emotions are about. They are valuable to express when they need to be expressed.

#### 18. IS IT WRONG TO DISRESPECT PEOPLE?

My ethics is quite simple-minded. I do not disrespect people without being provoked. Mostly it is for my own safety. People are a threat to me when I don't know them and disrespect them. But when they disrespect me – as in the totally disgusting, vile, illiterate, hick, podunk, tasteless, vicious, racial murderous cunt, *Bill Gates*, I feel no remorse or apology or shame and feel pretty damn good about disrespecting them all day and all night, 24/7 without a worry in the world and without giving a damn what the consequences are.

#### 19. AN ATTEMPT TO MAKE SENSE OF EMOTIONS

I want to provide a fairly crude but genuine attempt to define emotions. Emotions I will define as states in our mind and body, or soul, that are due to activity of seven Panksepp emotion systems in subcortical parts of the brain. Salient issues are that the subcortical systems function according to evolutionary adaptations of 251–201 million years and are encoded primarily in the genetic code in common,  $G_c$ , that 99.9% human beings share. The effects of the activity include physiological effects and changes in mood, and particular feelings.

Now this is actually interesting as an exercise. My mathematical training wants to define emotions *purely* and separately from various possible effects that could be measured or determined in other ways.

In other words, I think it is worthwhile to *define emotions* without reference to particular effects, which in toto will be the *experience of the emotion*—feelings of anger with clenched fist, feelings of euphoria and singing in the rain, feelings of contentment, and so on.

I am liking this sort of approach which is analogous to early quantum mechanics. You define emotions as *states of the soul* and then feelings and physiological effects and such are *observables*. The state we consider *latent* and the things that are effects of the state are not emotions themselves but *emotional effects*. This seems at first like semantic juggling but in quantum mechanics, theories had states and measurements. Emotions then become *easy to define* and then there are theories of what effects they will have that are indirect measurements of the state. This is really valuable in psychology. What happens when one has fear state but for whatever reason (like being drugged high in cocaine) the effects are abnormal? The ordinary definitions are too focused on sensations because psychology even during William James' time was subjective-oriented. There language is personal and does not gain any value from this separation.

## 20. A RETURN TO DESCARTES 1649

In this note I am just exploring some issues of emotions, attempting to find some firm ground. I am not interested in formulating solid scientific theories at this time. I have an alternative to the concept of the soul which is my *Life Core Theory* which differs from Descartes and Plato and Aristotle as well. In my theory *Life Core* precedes birth and succeeds death. I take this seriously and am not an Empiricist in the ordinary way and *do not have agreement with the Materialist consensus*. Let me tell you what that means because it is central to my core convictions regarding Nature and Existence.

I do not believe that life reduces to bio-chemistry. In other words, I actually totally dismiss the idea that if you start with biochemical knowledge that you can actually use that knowledge to create life. This is despite various artificial manipulations that have been done, such as take small organisms and produce different DNA sequences and have some *deformed life*. Those experiments only prove that DNA can be artificially produced and leave the question of whether Life is possible to produce artificially aside.

This seems quite subtle but is not. You see you take a living object, an organism, and you *assume* that all the things happening to make it alive are chemical, then you play around with recoding the DNA. Then your new DNA is now a deformed organism that, say, still has characteristics of a living organism. That's not sufficient to know a damn thing about Life at all. Your assumption that the DNA is enough and the rest is 'background in vivo stuff' totally missed the central issue. DNA is just some sort of control. The rest of the in vivo stuff contains secrets of Life you don't know at all.

This is a gigantic disagreement I have with all of extant Science. We don't know what Life is at all. We only know that we can deform the DNA of living organisms. Four-sphere theory guarantees that three-dimensional chemistry is wrong and there are four-dimensional purely electromagnetic effects that allow proteins to fold and we do not yet know what Life is really in terms of electromagnetic phenomena that have not been detected yet.

I do *not believe* even a little bit that Life reduces to biochemistry. There is more to the story that is mysterious. Eventually four-sphere theory will shed light on this issue. But extant consensus in Science is outrageously wrong.

## 21. THE BILL GATES-ZULFIKAR MOINUDDIN AHMED CLASH HAS DEEP IRONY

You see I am a substantial man driven by deep passions. I truly believe in natural rights security for all human beings. I literally joined far left revolutionary socialists during Iraq War. I literally gave up all my material possessions and a beautiful loft in Williamsburg to pursue truth, giving up money and earnings, for a Great Republic of Humanity and Final Theory of Nature, following my heart, dealing with deprivations in homelessness in New York City, obsessively working on my ideas in four-sphere theory isolated from Ivy League universities where I feel most comfortable in Allen Texas, with great philanthropic plans to save the world etc. My record is unblemished and my moral convictions and benevolence for my beloved people are strong.

Bill Gates is the *polar opposite*. He was a psychopathic evil-to-the-core deceiver totally selfish and deceptive who *played at* seeming philanthropic, murdered people all his life, is totally misanthropic, had been plotting genocide as a passion in his life, was greedy beyond all imagination all his life.

And so when we encountered each other, I was not actually interested in anything other than getting a client for D. E. Shaw & Co. because I did some world class Finance work and wanted to get compensated for it. I would have traded my Medium Frequency Alpha Strategy myself to bootstrap my finances and normal life back, but then I said, "Fuck it. David E. Shaw is willing to give me \$120 million. I'll take that and get into a nicer life after deprivation for so many years in San Francisco and expand my Thyself Inc. with Quant Positive Psychology." Madam Lagarde (in meta) was willing to give me \$500 million.

Instead I was brutally assaulted in my *Deep Interior* and suddenly I find out that this *Bill Gates* is more evil and rotten and horrid and outrageously evil more than Mumm-Ra and Palpatine and literally has evil genocide plans. The problem here is that I am a great man so in one way the world is fortunate and I am unfortunate because I doubt that my Deep Interior will ever be repaired.

But, from a different perspective, Bill Gates is a total evil scum bag who picked the *worst man in the entire world to victimize* because I am squeakier clean than most of the Catholic Saints and so in contrast he will look even more horrible. I am not only a genuine immortal genius for my works, but I studied Literature and Mathematics at Princeton and my ideals are as pure and clean as when I was a young idealistic man obsessed with Nobility of the Soul and reading Percy Bysshe Shelley. I was never well-off and am not known, but I will have to scrape off this malignant villain and erase him from the face of the Earth in the end because he hurt me in various ways. I don't mean literally but the United States Government will end up having to totally erase him.

The irony is that I actually am a genuinely good person who genuinely has benevolent plans for eight billion humans. So then when it is revealed to all people that Bill Gates was a rotten evil scumbag for decades, this will be a shock to the system. And whether or not I achieve the Positive Psychology and other various goodie-two-shoes projects that I am excited about myself, I will have totally wiped out Bill Gates Empire and his history and everything but *not because that is what*

*I wanted to do.* He will produce the situation himself. And then I will have erased the miserable wretched mass murdering son of a bitch and gain the reputation of someone who is a bad-ass.

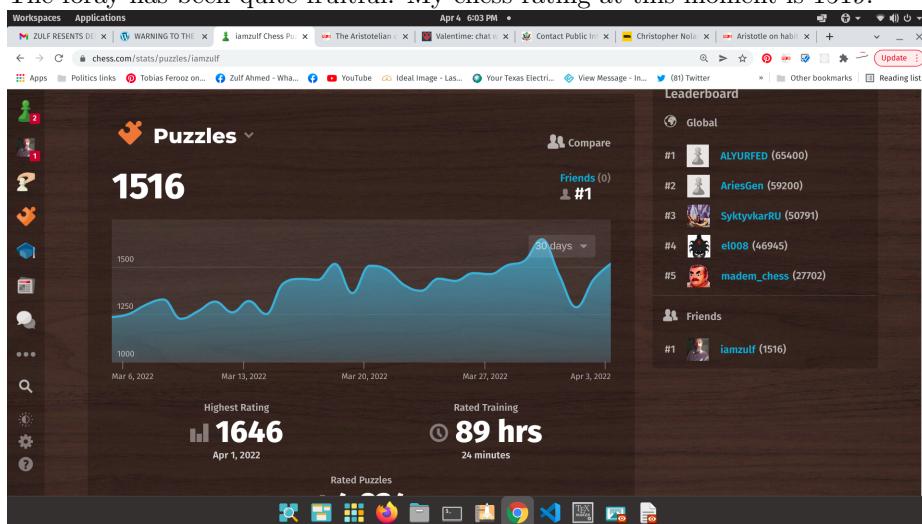
The world is a much stranger than it seems. It's outrageous what things happen in this world.

## 22. A RETURN TO FALL 2019 STANFORD ANALYSIS EXAM

It has been some time since I stopped working on Stanford Mathematics Ph.D. Quals and took a productive detour towards Psychology. The detour involved gaining some skills in chess, as I am still a novice and examining my own psychology. I pronounced some quantitative laws of emotions in the process, and in the end declared my *Intuitive Revolution* for Psychology, and sought tenured full professorship at HSOC – Harvard-Stanford-Oxford-Cambridge.



The foray has been quite fruitful. My chess rating at this moment is 1519.



A quick glance at my rating over time shows that backward probability of my rating being above 1500 is quite low for the past month, and so I am not particularly unhappy *in a relative way*. I am firmly convinced that Aristotle's habituation to Virtues is correct, that practice is what improves moral virtues, and also that basal ganglia is the locus of the *intuitive sphere*. All this is really new, as I see another article right now from 2018 that address general questions of Aristotle for the modern neuroscientific moment by Manik Konch and Ranjan Kumar Panda.

I sense clearly that my *Intuitive Revolution is not just warranted but absolutely necessary*. I await tenure and funding from HSOC.

Having said all this, I do want to return to practice some Analysis problems and Fall 2019 Analysis exam I did not complete before. I am getting more and more resentful at the delay of HSOC to provide me with the right situation for Quantitative Positive Psychology for improvement of Life Satisfaction for eight billion people. That idea originated before I had discovered the Virtues that are full spectrum for high life satisfaction for all human beings, a great contribution of mine as well.

### 23. PROBLEM I.2

We are given  $X \subset \mathbf{R}$  a Borel set and fixed  $p, q$  with  $1 \leq p < q < \infty$ . Now  $\mu$  is the Lebesgue measure and

$$L^q(X, \mu) \subset L^p(X, \mu).$$

We have to show that  $\mu(X) < \infty$ .

The first idea is to see what we can do with Hölder inequality. Let  $q = p + r$  with  $r > 0$ . Our assumption says there exists  $C > 0$  with

$$\int |f|^{p+r} \mu(dx) \leq C \int |f|^p \mu(dx)$$

for every  $f \in L^q(X, \mu)$ . Instead of rushing to some error, we ponder some issues. I will return to this problem later.

### 24. PROBLEM I.3

Prove that a closed linear subspace of a reflexive Banach space is reflexive.

Suppose  $Y \subset X$  is closed and  $X$  is reflexive. We have Banach space isomorphism between  $X$  and  $X''$ . We want to produce an isomorphism between  $Y$  and  $Y''$ .

### 25. PROBLEM I.4

Let  $\mathcal{D}'(\mathbf{R})$  be the space of distributions on  $\mathbf{R}$ .

- (a) Suppose  $f \in \mathcal{D}'(\mathbf{R})$ . Show there exists  $u \in \mathcal{D}'(\mathbf{R})$  such that  $u' = f$ .
- (b) Show that if  $v' = f$  then  $u - v$  is constant.

### 26. PROBLEM 1.5

Let

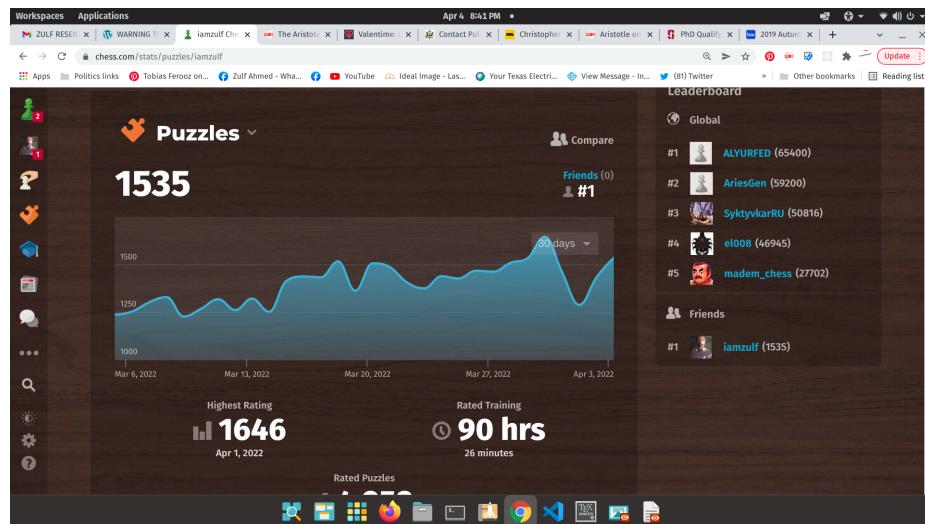
$$m : C_0^\infty(\mathbf{R}^n) \times C_0^\infty(\mathbf{R}^n) \rightarrow C_0^\infty(\mathbf{R}^n)$$

be defined by

$$m(u, v) = uv$$

- (a) Prove there is no continuous extension of  $m$  to  $L^2(\mathbf{R}^n)$ .
- (b) Prove there is a continuous extension of  $m$  to  $H^s(\mathbf{R}^n)$  when  $s > n/2$ .

## 27. MY RATING IMPROVES TO 1535

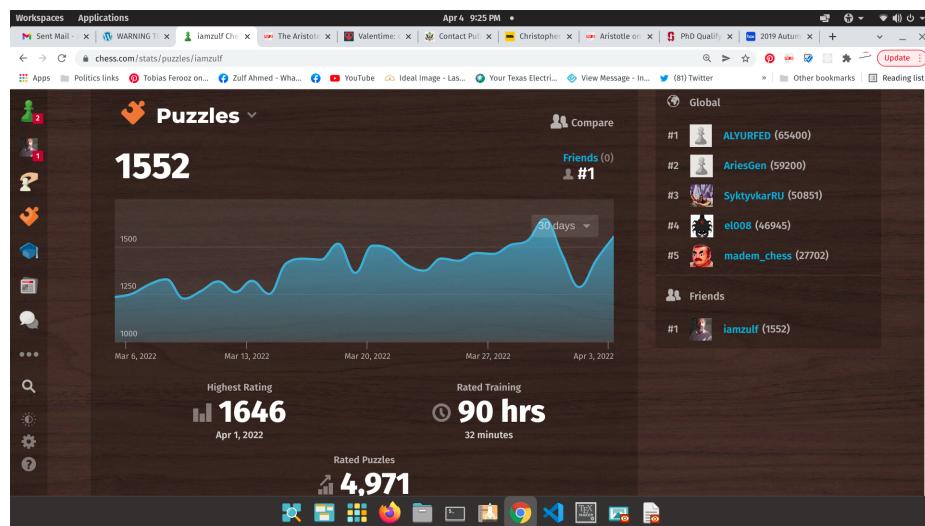


It is clear to me that Stanford Fall 2019 Analysis Qual will take a few days for me to complete because these require some momentum and practice, and I am rusty still in these issues.

I am quite amused that Bill Gates, who has never done any higher mathematics at all does not want to do the Ph.D. Quals problems even though I had challenged him to show his merit. He's a lifelong charlatan, and pretends these are "trivial". No one ever told the man that even parrot-brains can repeat "trivia" about anything without having any skill or intelligence to do the problems.

The Stanford Analysis Qual Problems are challenging even for me and take some days to do, and I am well-trained in Mathematics from Princeton with magna cum laude 1995. How will an illiterate man without a college degree, a failure in life whose wife left him at 66, possibly compete with me? The idea is absurd.

## 28. MY CHESS RATING REACHES 1552



I am going to take 10 days to do the problems from Fall 2019 Analysis Qual at Stanford. The reason is that I do want to have a refined understanding of Analysis at this level but I know that it's best to relax while pursuing these.

When I look at the chess game I notice that there is some significant improvement from practice, but there are wild fluctuations in rating still. And this I think is a natural process for how *the intuitive sphere absorbs habits*. The same will hold for high level mathematics, and the same will hold for moral virtues too, and I am the explorer these days of the *particular way in which human capabilities habituate especially at the higher levels*.

### 29. PROBLEM II.1

- (a) Suppose  $X$  and  $Y$  are compact Hausdorff topological spaces. Show that functions  $\phi(x)\psi(y)$  are dense in  $C(X \times Y)$ .
- (b) Show that compact operators are norm limits of finite rank operators on a Banach space.

### 30. PROBLEM II.2

Suppose  $X$  is a linear vector space and  $B : X \times Y \rightarrow \mathbf{C}$  is a jointly continuous bilinear function. Suppose  $\rho_a$  is a family of seminorms. Show

$$|B(x, y)| \leq C(\rho_{a_1}(x) + \dots + \rho_{a_n}(x))(\rho_{a_1}(y) + \dots + \rho_{a_n}(y))$$

for some finite set  $a_1, \dots, a_n$ .

The finite number of  $a_1, \dots, a_n$  are the result of the definition of weakest topology so the seminorms are continuous. You see, if  $b : X \rightarrow \mathbf{C}$  is continuous and linear, then we get

$$|b(x)| \leq C(\rho_{a_1}(x) + \dots + \rho_{a_n}(x))$$

from the construction of the weakest topology that makes the seminorms continuous because topologies admit *finite intersections* of open sets. Once you know this for a linear function the bilinear extension is general nonsense.

I have had a lot of problems with technical mumbo-jumbo introduced by Von Neumann to mathematics, and I seriously doubt that there are any nontrivial locally convex topological vector spaces that are not distributions and test functions at all. I wish someone would put the area out of its misery. They are horribly abstract and I suspect that the 'generality' of these concepts have no mathematical substance.

### 31. OBSERVATIONS ABOUT HIGHLY SPECIALISED WORK

In highly established fields like Mathematics, it is fruitful to get involved in extremely specialised questions. It is less fruitful in less established fields such as Psychology. Here there are problems of lack of Canonical body of knowledge that everyone masters where the most salient issues are crisp, clear, and without doubt. Psychology in my opinion has not reached that point. Where are the Nicolas Bourbaki and Jean Dieudonne of Psychology who attempted to write encyclopaedic tomes to encapsulate Psychological undubitable knowledge? It does not exist, and Carl Gustav Jung's monolithic work is beautiful but it is not a substitute for body of knowledge of a natural science. These are still in the future for Psychology. These still need another Scientific Revolution for unity of subject matter more in Psychology than any other field. I implore physicists and mathematicians to get involved in the great frontiers of Psychology as much remains hidden, mysterious,

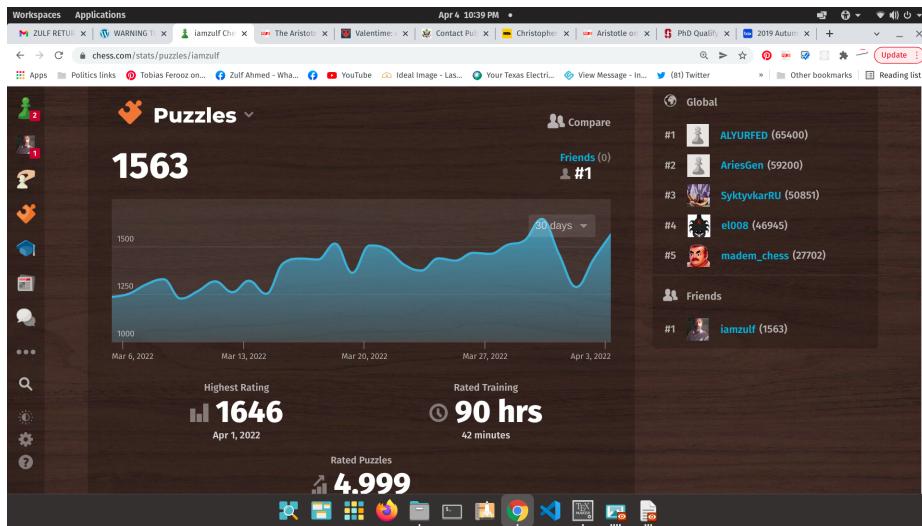
and in need of excavation here, much needs exploration and gigantic collaborative efforts.

### 32. PROBLEM II.4

Suppose  $f : [0, \infty) \rightarrow [0, \infty)$  is continuous. Assume for any  $x \in [0, \infty)$  we have  $f(nx) \rightarrow 0$ . prove that

$$\lim_{x \rightarrow \infty} f(x) = 0$$

### 33. MY CHESS RATING REACHES 1563



I recently had a severe drawdown in my chess rating and am recovering slowly with rating now at 1563. What is important to understand is that it is relatively new for me to be above 1500 at all and I am getting used to some skills at this level.

The chess experience is opening a new vista for me about mathematical skills too. You know, when I was a younger man, I had learned to do higher mathematics by relaxing and just being a diligent student. At Princeton I took high level graduate courses in Mathematics, and I did well in my courses, but did not realise then that the skill level of mathematics improves with practice in doing harder problems as well. And now it is not too late still, as effort spent on *habituating myself* in doing high level mathematical problems has fruits still, not just personal satisfaction here. I believe that mathematical sophistication is valuable for mapping out Psychology as well.

### 34. PROBLEM II.5

Suppose  $(X, \mu)$  is a measure space with  $\mu(X) < \infty$ . Suppose  $f_j \rightarrow f$  in measure and for some  $p \geq 1$  also  $\sup \|f\|_p < \infty$ . Then  $f_j \rightarrow f$  in  $L^1$ .

### 35. PSYCHOLOGISTS HAVE NO OPTION BUT MATHEMATICS FIRST THEN COMPUTER SCIENCE

Psychology's most demanding challenge is to account for (a) vast almost infinite amount of phenomena, with (b) vast latent-ness.

Mathematics cannot be avoided in this situation. No other analytical discipline no matter how rigorous in aims, can match Mathematics in handling infinite variety of phenomena with large latent-ness in content. Without a detailed organised inventory, one cannot rush to Computer Science and database technology effectively. Mathematical precision is necessary even to have communicable standards that are realistic for mastery by individual psychologists. A single man or woman has no chance to absorb the vastness of the phenomena. Ad hoc simplifications will produce interminable disputes and revolutions, counter-revolutions and unending strife and division in Psychology. This is not appreciated by Psychologists who feel comfortable with the status quo, but for those like me who are outsiders it is disturbing that psychology has more schools of thought than the species of ducks in nature.

### 36. PROBLEM II.5

(a) Given  $L > 0$ , show that

$$\int_{-L}^L |f|^2 dx \leq C(L) \int_{-L}^L |f'|^2 dx$$

(b) Find constants  $a, b$  so that

$$\|f\|_2 \leq C \|f\|_1^a \|\nabla f\|_2^b$$

can hold on  $\mathbf{R}^n$ .

(c) Prove that if

$$\hat{f}(\xi) = 0$$

for  $|\xi| \leq R$  then

$$\|f\|_2 \leq CR^{-2} \|\nabla f\|_2$$

and if

$$\hat{f}(\xi) = 0$$

for  $|\xi| \geq R$  then

$$\|f\|_2 \leq CR^2 \|\nabla f\|_2$$

Combine these to with (b) to prove an inequality for all  $f$ .

For this we consider the two open set covering of  $\mathbf{R}^n$  by choosing  $\eta > 0$  small and considering  $U_1 = B(0, R + \eta)$  and  $U_2 = \mathbf{R}^n - B(0, R)$ . That way we have a smooth partition of unity say  $\rho_1, \rho_2$ . Using these we have

$$f = f_1 + f_2$$

where  $f_1$  and  $f_2$  have Fourier transforms that are zero outside  $U_1$  and  $U_2$  respectively. We combine the inequalities for  $f_1$  and  $f_2$  separately and then we play a game of inequalities to prove something like (b).

**36.1. Standard Result Of Existence Of Smooth Partition Of Unity.** For geometers, use of smooth partitions of unity is standard, but analysts often don't use it. In this problem, the invocation of a standard smooth partition of unity subordinate to cover  $\{U_1, U_2\}$  really makes the problem much more amenable as the details of construction of cutoffs are eliminated in the frequency space. I think this is the most elegant approach to the problem. Plancherel's theorem ensures that

$$\|f_k\|_2 = \|\hat{f}_k\|_2$$

for  $k = 1, 2$  and this allows us to make some simplifications without explicit handling of cutoff functions. This is a gigantic reduction of the potential jambalaya that results when explicit handling of the cutoffs are demanded. To us it does not matter that we have  $R + \eta$  in the inequality. We'll have to do some inequality involving

$$\nabla f = \nabla f_1 + \nabla f_2$$

on the right side anyway, and perhaps a simple triangle inequality argument will allow a combination. There is after the smooth partition of unity no more information required for the problem except that  $\hat{f}_1 = 0$  outside  $U_1$  and  $\hat{f}_2 = 0$  outside  $U_2$ . We'll get

$$\|f\|_2 \leq (C_1(R + \eta)^{-2} + C_2 R^2) \|\nabla f\|_2$$

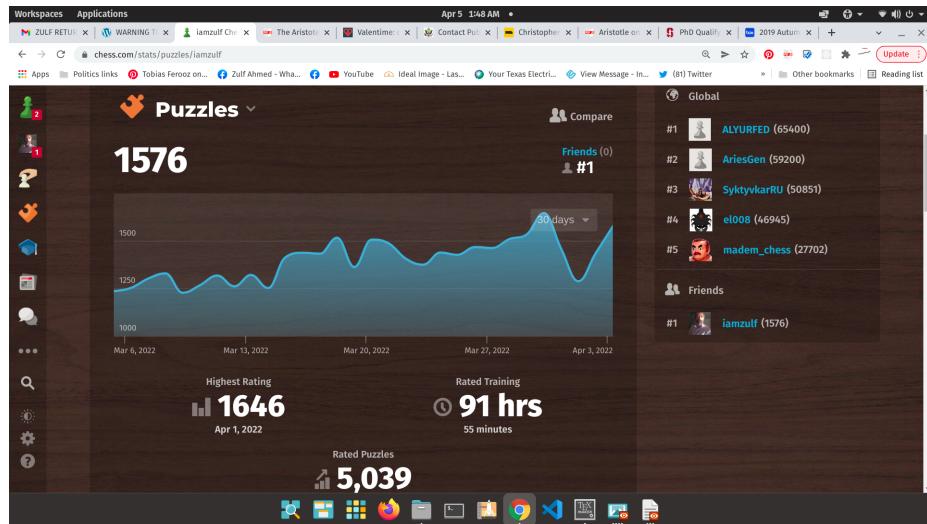
and from there we ought to get something useful for (c).

### 37. BILL GATES IS A PATHOLOGICALLY MALEVOLENT DECEIVER AND CHARLATAN

Not just in Mathematics but also in Coding Bill Gates has *always been* a total charlatan. You see, if repeating *Trivia* about all nontrivial problems along with intimidation and harm to others were the *universally valid algorithm* to resolve difficult problems, then Riemann Hypothesis and all other extant difficult open problems would have been resolved during the Pleistocene era when, at least in the imagination of Stanley Kubrick in *2001: A Space Odyssey*, man learned to use the bones of animals to hit each other and apply aggression. Bill Gates is not an intellectual genius of any rank at all. He is a deceiver and a lifelong charlatan. His technique is to repeat "I'm big" and attempt to harm people by any illegitimate power he can reach, and denigrate other people's great accomplishments by repeating "trivia". This is not the effective algorithm for actually solving real problems that are challenging.

The proof that I am right is in the pudding. Where is even a single attempt by Bill Gates to solve even a few of the problems of Stanford Mathematics Ph.D. Quals in Analysis? I submit that the Stanford Mathematics Department never received any solutions. The reason is quite obvious. *That's not the sort of thing Bill Gates was ever good at.* He's a brutal savage parasitic war criminal obsessed with harm to others at any cost. His shtick had been that he is intelligent and intellectually capable. That's all a mirage.

### 38. MY CHESS RATING REACHES 1576



My chess rating can be verified with Chess.com and I am not particularly embarrassed about good, bad, or ugly scores. I am 48 and at this age I do not get embarrassed by all sorts of minor issues. Chess requires practice, and I have all the drawdowns in my score recorded for posterity.

You see, I am a very different sort of cat than Bill Gates. I don't have the financial success I deserve yet, even though Madam Lagarde of ECB was willing to gift me \$500 million of ECB money and even though David E. Shaw in New York will tell you \$120 million is my money, Bill Gates had been obsessive about ensuring that I do not succeed and my life is destroyed. The fact that United States Government did not immediately intervene and destroy him and his evil Empire for his hubris and contempt for natural rights of an American is a wonder for me. But I am resilient.

I want Harvard Board to give me a tenured full professorship, arrange that my legitimate earnings of \$620 million are in my possession from Finance, and invest \$80 million in my entrepreneurial project for Quantitative Positive Psychology. They ought to do this because it's the right thing for them to do.

### 39. MY SELF-INTEREST MERGES WITH THE INTERESTS OF ALL HUMAN BEINGS

You see, United States Government, I was always theoretically moved by the appeals of Eleanor Roosevelt, that natural rights of all people everywhere in the world are sacred. I knew this as a good student at John Adams High School. I was the valedictorian of that school in 1991. I gave an esoteric speech on my analysis of William Blake's visionary poetry. The parents of the other graduates were bored to tears. Years later, quite a few years later, in San Francisco I was protesting the Iraq War in sunny beautiful surroundings. I was quite profoundly proud of my Conscience then, and I worked as Scientist II at a biotech. I would read about Bellarmine and Galileo, the writings of Josiah Willard Gibbs, history of science, Paul K. Feyerabend, and yes, Antonio Gramsci's *The Prison Notebooks Too*. I would read Frantz Fanon, which was not even known to the engineers at the

pharma biotech I worked at. And today, I am proud to uphold natural rights of all people everywhere when mine are assaulted by one of the worst human beings ever born of woman's womb, this vile despicable charlatan and psychopath by birth *Bill Gates*. These are great moments in one's life, the sort that Ralph Waldo Emerson would extol as the special moments, when the interests of all people everywhere are the same as mine, and those are the moments – besides being deeply in love – when man is capable of extraordinary achievements. You don't respect natural rights of all people, United States Government. You are unwise. You do not understand that this nation is not a great nation for anything else at all. Not for the land, the Heartland, not for the apple pies, the wealth and industry, the military boondoggles. It is natural rights security and universalist philosophy that is the beginning and end of the greatness of America. I might be an immigrant, but my soul is far more American than yours.

#### 40. MY JUDGMENT OF PHILOSOPHERS ON SUBLIME

You see, I am not impressed with Edmund Burke on the sublime at all. The best account is by Percy Bysshe Shelley, whose *Prometheus Unbound* was the canonical example of the Sublime. In twentieth century, Rainer Maria Rilke's *Duino Elegies* is more sublime than Eliot's *The Waste Land*. Other examples are rare, but Kazi Nazrul Islam's poetry is a good example, virtually unknown in the West.

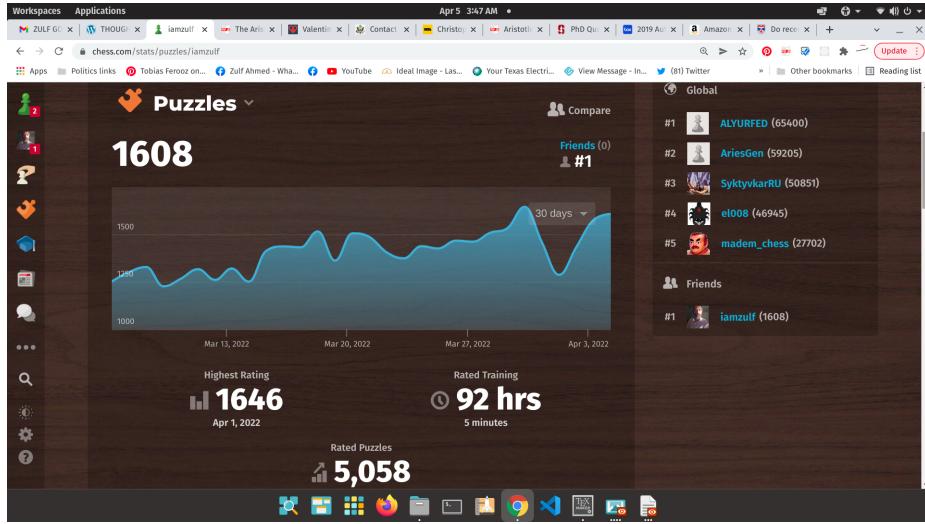
Yes, I did take a look at Edmund Burke. He's not all that good on issues of art. Kant's *Critique of Judgment* is more interesting. The man's theories of morality were wrong, but his theories of Aesthetic judgment were not bad.

#### 41. THE CHRISTIAN THEOLOGICAL VIEWPOINT ON VIRTUE FORMATION

I just quickly scanned a nice article on the relationship between neuroscience of habit formation and the *Christian* view [2]. I am indeed religious, but I am not Christian, so this is for me interesting matter of curiosity.

You see, from my point of view, Virtues as accounted by *Aristotle* was really merged with *Islamic* theology by Avicenna 980-1037 before Thomas Aquinas, and I don't see enough people recognise the priority here. In the West scholarship is really very bad about this crucial priority. Thomas Aquinas had just taken the merge with *Islamic* theology and just did some window dressing to make it Christian. But since both Islam and Christianity have wild popularity and I am not a faithful of either, I tend to just focus directly on the Aristotelian account, which is also not new, as Virtue Ethics is known to have existed in Ancient Egypt with *Teachings of Amenomope* from 1300 BC. When all the historical things are resolved, the substance still remains of precisely *how* basal ganglia and what I call the *intuitive sphere* functions to habituate high moral *Virtues* in people, whether Christian, Muslim, or, like me, religious of an entirely less popular faith.

My chess rating manages to reach 1608.



There is by now no doubt that my basal ganglia habit system is beginning to absorb certain combinations of thought and attention that makes it slightly easier for me to avoid mistakes at this level of chess.

It is quite clear to me that the exact same procedures are operating for improvement in our Virtuous action, and the same basal ganglia habit system is allowing us to improve our Virtuous Character.

I am quite keen on challenging all the theorists like Christian Miller and many others who are mounting an offensive against Virtue Ethics. For several years I was sure that Virtue Ethics is the only sort of ethics that will have *natural scientific substance* and for me the chess playing tells me that the mechanism is quite analogous. I expect that this will be established *without any doubts possible* and although I am not the first to bring up the *possibility* I am one of the very few people in the world who is relating it to the power law of practice with exact analogy with chess skill level.

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- [1] Jaak Panksepp, Affective Consciousness: Core emotional feelings in animals and humans, Consciousness and Cognition 2005, 1–51
- [2] <https://www.theo-puzzles.ac.uk/2021/08/30/tpawl/>